

Practitioner's Docket No.: 020661.0111PTUS

Patent Application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of: Greer et al.
Serial No.: 10/687,318
Filed: October 16, 2003
For:

Group Art Unit: Unknown
Examiner: Unknown

METHOD FOR PREVENTING AND CLEANING RUTHENIUM-CONTAINING
DEPOSITS IN A CVD APPARATUS

INFORMATION DISCLOSURE STATEMENT

Mail Stop Non-Fee Amendment
Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

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In accordance with 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is directed to the cited references listed on the attached PTO/SB/08A and PTO/SB/08B. The cited references are believed to be the most relevant known to Applicants and/or Assignee at this time concerning the invention as claimed in the above-captioned patent application. No representation is made or intended that more relevant information does not exist or that the order of presentation of the information in any way reflects their relative pertinence.

Applicants respectfully request that each of the cited information be expressly considered during the prosecution of this application and that the cited references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. A copy of each reference is attached.

This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. It is believed that no fees are due. However, if necessary, please charge deficient fees associated with this communication to Deposit Account No. 50-1848.

Respectfully submitted,
PATTON BOGGS, LLP

Date: 16 Jan 2004

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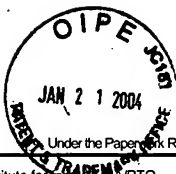
Sheet	1	of	2
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Application Number	10/687,318
Filing Date	16 Oct 2003
First Named Inventor	Harold F.R. Greer
Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	020661.0111PTUS

[illegible][illegible]Date
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(use as many sheets as necessary)

Sheet 2

of

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Complete if Known

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First Named Inventor	Harold F.R. Greer
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	020661.0111PTUS

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	4	GOODWIN ET AL., "Reactive Metal Volatilization From Ru/Al ₂ O ₃ As A Result Of Ruthenium Carbonyl Formation", Applied Catalysis, April 1, 1986, pp. 199-209, Vol. 24, Elsevier Science Publishers B.V., Amsterdam, The Netherlands	
	5	PAN ET AL., "Reactive ion etching of RuO ₂ thin films using the gas mixture O ₂ /CF ₃ CH ₂ ", J. Vac. Sci. Technol., Nov/Ded, 1994, pp. 3208-3213, Vol. B 12, No. 8, American Vacuum Society	
	6	CHANDRA ET AL., "Vapor Pressures of Osmium, Rhodium, and Ruthenium Carbonyls", Journal of Phase Equilibria, July 6, 1999, pp. 565-572, Vol. 20, No. 6	
	7	NAKAHARA ET AL., "Etching technique for ruthenium with a high etch rate and high selectivity using ozone gas", J. Vac. Sci. Technol., Nov/Ded, 2001, pp. 2133-2136, Vol. B 19, No. 6, American Vacuum Society	

Examiner
SignatureDate
Considered

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